ABSTRACT OF THE DISCLOSURE

The present invention relates to a voice region detection apparatus and method capable of accurately detecting a voice region even in a voice signal with color noise. The voice region detection method comprises the steps of, if a voice signal is input, dividing the input voice signal into frames; performing whitening of surrounding noise by combining white noise with the frames; extracting random parameters indicating randomness of frames from the frames subjected to the whitening; classifying the frames into voice frames and noise frames based on the extracted random parameters; and detecting a voice region by calculating start and end positions of a voice based on the voice and noise frames. According to the present invention, the voice region can be accurately detected even in a voice signal with a large amount of color noise mixed therewith.